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DATA ACCESS SYSTEM

ABSTRACT

5 A TEF-P-FEC system provides an efficient technique for storing, updating, locating, and retrieving data. In particular, data may be stored in a persistent, user-defined, shareable in-memory database table. Once this in-memory database table is created and loaded with data, data may be located in the table.

When a search request specifying a number of results to be retrieved from a desired starting point is received, the data is located in an in-memory database table. Then, the specified number of results from a desired starting point are returned.

10 The data is retrieved from the in-memory database table by retrieving stored descriptors corresponding to search terms in the search request. The stored descriptors are mapped to location information in a header area of an in-memory database table. Using the location information data is retrieved either from a data area of an in-memory database table or from a relational data store.

15 Furthermore, data that is accessed via an in-memory database table is updated upon receiving an update request. The data that is updated may either be data in a data area of the in-memory database table or may be relational data. When data is updated, a high speed index used to access the in-memory database table is also updated.